

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,415,065 B2
APPLICATION NO. : 10/689765
DATED : August 19, 2008
INVENTOR(S) : Seema Sud et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE CLAIMS:

In Column 8, please replace Claim 1 with:

1. A method for adaptive filtering a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients \hat{c} , such that $\hat{c} = E[\hat{r}\hat{r}^H]^{-1}\hat{s}_{\text{desired}}$, where

E is the expected value operator,

\hat{r} is the received signal,

\hat{s}_{desired} is the modified steering vector of the desired signal, and

$\hat{s}_{\text{desired}} = \bar{s}_{\text{desired}} \cdot \bar{h}$, where

$\bar{h} = [h_1, h_2, \dots, h_L]$ is a discrete time estimate of the effect of multipath on the channel

and L is the delay spread of the channel for the estimate.

In Column 9, please replace Claim 5 with:

5. A computer program product for adaptive filtering a signal received over a channel subjected to multipath effects, the computer program product comprising:

a computer-readable medium;

at least one program module stored on the medium, the at least one program module operative to:

determining filter coefficients \hat{c} , such that $\hat{c} = E[\hat{r}\hat{r}^H]^{-1}\hat{s}_{\text{desired}}$, where

E is the expected value operator,

\hat{r} is the received signal,

\hat{s}_{desired} is the modified steering vector of the desired signal, and

$\hat{s}_{\text{desired}} = \bar{s}_{\text{desired}} \cdot \bar{h}$, where

$\bar{h} = [h_1, h_2, \dots, h_L]$ is a discrete time estimate of the effect of multipath on the channel and L is the delay spread of the channel for the estimate.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE CLAIMS (CONT'D.):

In Column 10, Line 22, please change "onto the nulspace of the correlation direction vector of" to -- onto the nullspace of the correlation direction vector of --

In Column 10, please replace Claim 9 with:

9. A method for adaptive filtering in a Multistage Wiener Filter (MWF) of a signal received over a channel subjected to multipath effects, the method comprising:

determining filter coefficients \hat{c} such that $\hat{c} = E[\hat{r}\hat{r}^H]^{-1} \hat{s}_{\text{desired}}$, where

E is the expected value operator,

\hat{r} is the received signal,

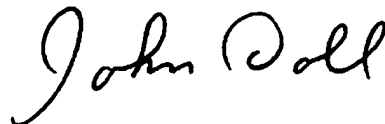
\hat{s}_{desired} is the modified steering vector of the desired signal, and

$\hat{s}_{\text{desired}} = \bar{s} \cdot \bar{h}_{\text{desired}}$ where

$\bar{h} = [h_1, h_2, \dots, h_L]$ is a discrete time estimate of the effect of multipath on the channel and L is the delay spread of the channel for the estimate.

Signed and Sealed this

Ninth Day of June, 2009



JOHN DOLL
Acting Director of the United States Patent and Trademark Office